

**WHAT IS CLAIMED IS:**

1. An audio recording apparatus for use with a recording medium to record data thereon, the apparatus comprising:
  - means for recording user data onto at least one data area of the recording medium;
  - means for recording a navigation data table onto a navigation data area, the navigation data table containing a plurality of navigation information, at least one of the plurality of navigation information being associated with the user data recorded in the data area and at least one of the plurality of navigation information being associated with presentation control information, wherein the navigation data table includes start address information associated with at least one of the plurality of navigation information;
  - means for checking whether a start address of at least one of the plurality of navigation information has been changed; and
  - means for altering the start address information in the navigation data table in response to the change in the start address of at least one of the plurality of navigation information.
2. An audio recording apparatus according to claim 1, wherein the navigation data table is recorded as a single file.
3. An audio recording apparatus according to claim 1, wherein the plurality of navigation information recorded in the navigation data area includes an audio file information table.
4. An audio recording apparatus according to claim 3, wherein the plurality of navigation information recorded in the navigation data area further includes an audio still video file information table.
5. An audio recording apparatus according to claim 1, wherein the presentation control information recorded in the plurality of navigation information comprises:
  - a sequential presentation information table containing management information for reproducing data in a recording order; and

a prescribed-order presentation information table containing management information for reproducing data in a user-defined order.

6. An audio recording apparatus according to claim 1, wherein each of the start address information of the navigation data table is represented by a relative positional information from the beginning of the navigation data table.

7. An audio recording apparatus according to claim 1, wherein the start address information of the navigation data table includes a start address of a text data manager information table.

8. An audio recording apparatus according to claim 1, wherein the start address information of the navigation data table includes a start address of a manufacturer's information table.

9. An audio recording apparatus according to claim 1, wherein the plurality of navigation information comprises:

- an audio file information table;
- an audio still video file information table;
- a sequential presentation information table; and
- a prescribed-order presentation information table.

10. An audio recording apparatus according to claim 9, wherein the start address information of the navigation data table includes start addresses of the audio file information table, the audio still video file information table, the sequential presentation information table, and the prescribed-order presentation information table.

11. A rewritable recording medium comprising:  
at least one data area to record user data; and

a navigation data area to record a navigation data table containing a plurality of navigation information, at least one of the plurality of navigation information being associated with the user data recorded in the data area and at least one of the plurality of navigation information being associated with presentation control information, wherein the navigation data table includes start address information associated with at least one of the plurality of navigation information and the start address information being updated during at least one of recording and editing operation when determined that a recording location of at least one of the plurality of navigation information has been altered.

12. A rewritable recording medium according to claim 11, wherein the navigation data table is recorded as a single file.

13. A rewritable recording medium according to claim 11, wherein the plurality of navigation information recorded in the navigation data area includes an audio file information table.

14. A rewritable recording medium according to claim 13, wherein the plurality of navigation information recorded in the navigation data area further includes an audio still video information table.

15. A rewritable recording medium according to claim 11, wherein the presentation control information recorded in the plurality of navigation information comprises:

a sequential presentation information table containing management information for reproducing data in a recording order; and

a prescribed-order presentation information table containing management information for reproducing data in a user-defined order.

16. A rewritable recording medium according to claim 11, wherein each of the start address information of the navigation data table is represented by a relative positional information from the beginning of the navigation data table.

17. A rewritable recording medium according to claim 11, wherein the start address information of the navigation data table includes a start address of a text data manager information table.

18. A rewritable recording medium according to claim 11, wherein the start address information of the navigation data table includes a start address of a manufacturer's information table.

19. A rewritable recording medium according to claim 11, wherein the plurality of navigation information comprises:

- an audio file information table;
- an audio still video file information table;
- a sequential presentation information table; and
- a prescribed-order presentation information table.

20. A rewritable recording medium according to claim 19, wherein the start address information of the navigation data table includes start addresses of the audio file information table, the audio still video file information table, the sequential presentation information table, and the prescribed-order presentation information table.

21. An audio apparatus for use with a recording medium to record user data thereon, the apparatus comprising:

- a signal pick-up unit to record information onto the recording medium;
- an analog signal processor to produce analog signal from digitize data;
- a digital signal processor to provide the digitized data to the analog signal processor;
- a control unit to record the user data onto at least one data area of the recording medium, wherein the control unit records a navigation data table onto a navigation data area of the recording medium, the navigation data table containing a plurality of navigation information, at least one of the plurality of navigation information being associated with the user data recorded

in the data area and at least one of the plurality of navigation information being associated with presentation control information, wherein the navigation data table includes start address information associated with at least one of the plurality of navigation information, and wherein the control unit checks whether a start address of at least one of the plurality of navigation information has been changed and alters the start address information in the navigation data table in response to the change in the start address of at least one of the plurality of navigation information.

22. An audio apparatus according to claim 21, wherein the navigation data table is recorded as a single file.

23. An audio apparatus according to claim 21, wherein the plurality of navigation information recorded in the navigation data area includes an audio file information table.

24. An audio apparatus according to claim 23, wherein the plurality of navigation information recorded in the navigation data area further includes an audio still video information table.

25. An audio apparatus according to claim 21, wherein the presentation control information recorded in the plurality of navigation information comprises:

a sequential presentation information table containing management information for reproducing data in a recording order; and  
a prescribed-order presentation information table containing management information for reproducing data in a user-defined order.

26. An audio apparatus according to claim 21, wherein each of the start address information of the navigation data table is represented by a relative positional information from the beginning of the navigation data table.

27. A method of creating and writing navigation data on a recording medium, the method comprising the steps of:

recording user data onto at least one data area of the recording medium;

recording a navigation data table onto a navigation data area, the navigation data table containing a plurality of navigation information, at least one of the plurality of navigation information being associated with the user data recorded in the data area and at least one of the plurality of navigation information being associated with presentation control information, wherein the navigation data table includes start address information associated with at least one of the plurality of navigation information;

checking whether a start address of at least one of the plurality of navigation information has been changed; and

altering the start address information in the navigation data table in response to the change in the start address of at least one of the plurality of navigation information.

28. A method of claim 27, wherein the navigation data table is recorded as a single file.

29. A method of claim 27, wherein the plurality of navigation information recorded in the navigation data area includes an audio file information table.

30. A method of claim 29, wherein the plurality of navigation information recorded in the navigation data area further includes an audio still video file information table.

31. A method of claim 27, wherein the presentation control information recorded in the plurality of navigation information comprises:

a sequential presentation information table containing management information for reproducing data in a recording order; and

a prescribed-order presentation information table containing management information for reproducing data in a user-defined order.

32. A method of claim 27, wherein each of the start address information of the navigation data table is represented by a relative positional information from the beginning of the navigation data table.

33. A method of claim 27, wherein the start address information of the navigation data table includes a start address of a text data manager information table.

34. A method of claim 27, wherein the start address information of the navigation data table includes a start address of a manufacturer's information table.

35. A method of claim 27, wherein the plurality of navigation information comprises:  
an audio file information table;  
an audio still video file information table;  
a sequential presentation information table; and  
a prescribed-order presentation information table.

36. A method of claim 35, wherein the start address information of the navigation data table includes start addresses of the audio file information table, the audio still video file information table, the sequential presentation information table, and the prescribed-order presentation information table.

37. A method of managing navigation data using an audio apparatus and a recording medium, the audio apparatus comprising a signal pick-up unit, an analog signal processor, a digital signal processor and a control unit, the method comprising the steps of:

providing digitizing data with the digital signal processor;  
producing analog signal with the analog signal processor from the digitized data received from the digital signal processor;  
recording information onto the recording medium with the signal pick-up unit,  
wherein the control unit prepares a navigation data table for recording onto a navigation data area of the recording medium, the navigation data table containing a plurality of navigation

information, at least one of the plurality of navigation information being associated with the user data recorded in the data area and at least one of the plurality of navigation information being associated with presentation control information, and wherein the navigation data table includes start address information associated with at least one of the plurality of navigation information, and wherein the control unit checks whether a start address of at least one of the plurality of navigation information has been changed and alters the start address information in the navigation data table in response to the change in the start address of at least one of the plurality of navigation information.

38. A method of claim 37, wherein the plurality of navigation information recorded in the navigation data area includes an audio file information table.

39. A method of claim 38, wherein the plurality of navigation information recorded in the navigation data area further includes an audio still video information table.

40. A method of claim 37, wherein the presentation control information recorded in the plurality of navigation information comprises:

a sequential presentation information table containing management information for reproducing data in a recording order; and

a prescribed-order presentation information table containing management information for reproducing data in a user-defined order.